AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1 (currently amended). A radio transmission apparatus, comprising:

an antenna comprised of <u>having</u> first and second linear polarization antenna elements perpendicular to each other;

<u>a modulator that modulates</u> modulating means for modulating transmission data to output a modulated signal; and

a phase controlling means for providing a controller that shifts a phase of said modulated signal by one of 0 degrees and 180 degrees phase difference to the modulated signal corresponding to the transmission data to output according to a value of the transmission data per bit.

2 (currently amended). The radio transmission apparatus according to of claim 1, wherein [[the]] said first and second linear polarization antenna elements are located positioned with longitudinal directions thereof crossing.

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3 (currently amended). The radio transmission apparatus according to of claim 1, wherein [[the]] said first and second linear polarization antenna elements are located positioned at a spaced interval on a plane with a longitudinal relationship between [[the]] elements indicative of twisted positions.

4 (currently amended). The radio transmission apparatus according to of claim 1, wherein [[the]] said first and second linear polarization antenna elements are located positioned at a spaced interval with a longitudinal relationship between the elements indicative of having an angle.

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5 (currently amended). The radio transmission apparatus according to of claim 1, wherein [[the]] said phase controlling means is multiplying means for multiplying controller comprises a multiplier that multiplies a transmission signal by a reference signal to multiply a reference signal that inverts a polarity of [[the]] said transmission signal corresponding to [[the]] said reference signal.

6 (currently amended). A radio transmission apparatus, comprising:

an antenna comprised of having first and second linear polarization antenna elements perpendicular to each other;

a modulator that modulates modulating means for modulating transmission data to output and outputs a modulated signal;

a spreader that spreads said spreading means for spreading the modulated signal to output a spread signal; and

a phase controller that shifts a phase controlling means for providing a of said spread signal by one of 0 degrees and 180 degrees phase difference to the spread signal corresponding to a value of a spreading code to output per chip, said spreading code using a spreading process.

7 (currently amended). The radio transmission apparatus according to of claim 6, wherein [[the]] said first and second linear polarization antenna elements are located positioned with longitudinal directions thereof crossing.

8 (currently amended). The radio transmission apparatus according to of claim 6, wherein [[the]] said first and second linear polarization antenna elements are located positioned at a spaced interval on a plane with a longitudinal relationship between [[the]] elements indicative of twisted positions.

9 (currently amended). The radio transmission apparatus according to of claim 6, wherein [[the]] said first and second linear polarization antenna elements are located

<u>positioned</u> at a spaced interval with a longitudinal relationship between [[the]] elements indicative of having an angle.

10 (currently amended). The radio transmission apparatus according to of claim 6, wherein [[the]] said phase controlling means is multiplying means for multiplying controller comprises a multiplier that multiplies a transmission signal by a reference signal to multiply a reference signal that inverts a polarity of [[the]] said transmission signal corresponding to [[the]] said reference signal.

11 (currently amended). A radio transmission apparatus, comprising:

an antenna comprised of <u>having a</u> first antenna element and <u>a</u> second antenna element that provide <u>with</u> different planes of polarization;

a modulator that modulates modulating means for modulating transmission data to output and outputs a modulated signal; and

a switch that switches <u>a destination of said modulated signal between said</u> [[the]] first antenna element and [[the]] <u>said</u> second antenna element to input the modulated signal thereto corresponding to the <u>according to a value of said</u> transmission data <u>per bit</u>.

12(currently amended). A radio transmission apparatus, comprising:

an antenna comprised of <u>having a</u> first antenna element and <u>a</u> second antenna element that <u>provide</u> with different planes of polarization;

<u>a modulator that modulates modulating means for modulating transmission data [[to]]</u>
<u>output and outputs</u> a modulated signal;

a spreader that spreads said spreading means for spreading the modulated signal to output and outputs a spread signal; and

a switch that switches a destination of said spread signal between said the first antenna element and the said second antenna element to input the spread signal thereto corresponding to a spreading code according to a value of a spreading code per chip, said spreading code using a spreading process.

13 (currently amended). A radio transmission apparatus, comprising:

an antenna that enables transmits two kinds of polarizations perpendicular to each other and switches said polarizations according to a value of to be transmitted and further enables the polarizations to be switched corresponding to transmission data per bit; and

a modulator that modulates said modulating means for modulating the transmission data to output and outputs a modulated signal.

14 (canceled).

15 (currently amended). A radio reception apparatus, comprising:

a receiver that receives receiving means for receiving a plurality of signals signal transmitted with [[a]] different plane of polarization planes;

an electric field strength detector that detects detecting means for detecting an a received electric field strength of the signal said plurality of signals; and

a determiner that performs determining means for making a data determination by associating a magnitude of said received electric field strength based on a detected result on the by said electric field strength detector with data.

16 (currently amended). The radio reception apparatus according to of claim 15, wherein said determiner the determining means makes a determination on data itself at the a time of a strong first electric field strength, while with respect to data at the a time of a second electric field strength, weaker than said first weak electric field strength, inverting the said data at the time of said strong first electric field strength is inverted to make a said determination.

17 (currently amended). The radio reception apparatus according to of claim 15, wherein said determiner the determining means comprises a D-flip flop receiving that receives as its input data to be corrected and as its gate input a delayed judged result, and an

X-NOR gate receiving that receives as its inputs an output of the said D-flip flop and the said judged result.

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18 (new). A radio transmission apparatus, comprising:

a modulator that modulates transmission data and outputs a modulated signal;
a spreader that spreads said modulated signal and outputs a spread signal; and
an antenna that transmits two kinds of polarizations perpendicular to each other, and
switches said polarizations according to a value of a spreading code per chip, said spreading
code using a spreading process.